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Substitute for form 1449/PTO		<i>Complete if Known</i>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Application Number</b>	10/693,429	
		<b>Filing Date</b>	2003-10-23	
		<b>First Named Inventor</b>	WALTON, J. Rodney	
		<b>Art Unit</b>	2467	
		<b>Examiner Name</b>	MARCUS SMITH	
<b>Sheet</b>	1	of	7	<b>Attorney Docket No:</b> 030417

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2(f)</sup> (known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US5818813	10-06-1998	SAITO; Masafumi et al.	
	002	US5973638	10-26-1999	ROBBINS; David F. et al.	
	003	US6097771	08-01-2000	FOSCHINI; Gerard Joseph	
	004	US6115354	09-05-2000	WECK; Christfried	
	005	US6141542	10-31-2000	KOTZIN; Michael D. et al.	
	006	US6317612	11-13-2001	FARSAKH; Christof	
	007	US6345036	02-05-2002	SUDO; Hiroaki et al.	
	008	US6492942	12-10-2002	KEZYS; Vytas	
	009	US6545997	04-08-2003	BOHNKE; Ralf et al.	
	010	US6597682	07-22-2003	KARI; Hannu	
	011	US6728233	04-27-2004	PARK; Jin-Soo et al.	
	012	US6785513	08-31-2004	SIVAPRAKASAM; Srinivas	
	013	US6990059	01-24-2006	ANIKHINDI; Santosh et al.	
	014	US6992972	01-31-2006	VAN NEE; Richard	
	015	US7006483	02-28-2006	NELSON; Jr. George Rodney et al.	
	016	US7009931	03-07-2006	MA; Jianglei et al.	
	017	US7068628	06-27-2006	LI; Ye et al.	
	018	US7492737	02-17-2009	FONG; Mo-Han et al.	
	019	US20020003774	01-10-2002	WANG; Zhaocheng et al.	
	020	US20020064214	05-30-2002	HATTORI; Toshihiro et al.	
	021	US20020184453	12-05-2002	HUGHES; Suzanne M. et	

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 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. §Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ¶  
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				al.	
	022	US20020191535	12-19-2002	SUGIYAMA; Takatoshi et al.	
	023	US20030012308	01-16-2003	SAMPATH; Hemanth T. et al.	
	024	US20030128656	07-10-2003	SCARPA; Carl	
	025	US20040071104	04-15-2004	BOESEL; Robert W. et al.	
	026	US20040160987	08-19-2004	SUDO; Hiroaki et al.	
	027	US20040203853	10-14-2004	SHEYNBLAT; Leonid	

FOREIGN PATENT DOCUMENTS					
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	028	AU2002259221	11-25-2002	QUALCOMM INC.	<input type="checkbox"/>
	029	CN1489836A	04-14-2004	MATSUSHITA ELECTRIC IND. CO., LTD.	<input checked="" type="checkbox"/>
	030	EP0762701A2	03-12-1997	ADVANCED DIGITAL TELEVISION BR [JP]	<input type="checkbox"/>
	031	EP0929172A1	07-14-1999	LUCENT TECHNOLOGIES INC [US]	<input type="checkbox"/>

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		Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	032	EP1061446	12-20-2000	SUN MICROSYSTEMS, INC.		<input type="checkbox"/>
	033	EP1185015	03-06-2002	ALCATEL (FR)		<input type="checkbox"/>
	034	EP1265411	12-11-2002	SONY DEUTSCHLAND GMBH.		<input type="checkbox"/>
	035	EP1315311A1	05-28-2003	FUJITSU LTD [JP]		<input type="checkbox"/>
	036	EP1379020	01-07-2004	NATIONAL UNIVERSITY OF SINGAPORE.		<input type="checkbox"/>
	037	EP1387545A2	02-04-2004	SAMSUNG ELECTRONICS CO LTD [KR]		<input type="checkbox"/>
	038	EP1556984A2	07-27-2005	QUALCOMM INC [US]		<input type="checkbox"/>
	039	GB2373973A	10-02-2002	TOSHIBA RESEARCH EUROPE LIMITED.		<input type="checkbox"/>
	040	JP03104430	05-01-1991	NIPPON TELEGRAPH & TELEPHONE.		<input checked="" type="checkbox"/>
	041	JP09327073	12-16-1997	N T T IDO TSUSHINMO KK.		<input checked="" type="checkbox"/>
	042	JP1028077	01-27-1998	SATO TAKURO WATANABE SOICHI ABE TAKEO.		<input checked="" type="checkbox"/>
	043	JP10327126	12-08-1998	LUCENT TECHNOLOGIES, INC.		<input checked="" type="checkbox"/>
	044	JP11252037A	09-17-1999	LUCENT TECHNOLOGIES INC.		<input checked="" type="checkbox"/>
	045	JP2000092009A	03-31-2000	SONY CORP.		<input checked="" type="checkbox"/>
	046	JP2001231074	08-24-2001	NORTEL NETWORKS LTD.		<input checked="" type="checkbox"/>

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<b>Sheet</b>	4	<b>of</b>	7	<b>Attorney Docket No:</b> 030417

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	047	JP200186045	03-30-2001	LUCENT TECHNOLOGIES, INC.		<input checked="" type="checkbox"/>
	048	JP2002111627	04-12-2002	SONY INTERNATL EUROP GMBH.		<input checked="" type="checkbox"/>
	049	JP2002164814	06-07-2002	NIPPON SOKEN et al		<input checked="" type="checkbox"/>
	050	JP2002204217	07-19-2002	NTT DOCOMO INC.		<input checked="" type="checkbox"/>
	051	JP200264879	02-28-2002	SK TELECOM CO LTD.		<input checked="" type="checkbox"/>
	052	JP200277098	03-15-2002	MITSUBISHI ELECTRIC CORP.		<input checked="" type="checkbox"/>
	053	JP200277104	03-15-2002	MITSUBISHI ELECTRIC CORP.		<input checked="" type="checkbox"/>
	054	JP2003504941	02-04-2003	SAMSUNG ELECTRONICS CO LTD.		<input checked="" type="checkbox"/>
	055	JP9266466A	10-07-1997	SUMITOMO ELECTRIC IND LTD.		<input checked="" type="checkbox"/>
	056	JP9512156T	12-02-1997	KONLE TILMAR [DE]		<input checked="" type="checkbox"/>
	057	KR1020020003370	01-12-2002	NTT DOCOMO, INC.		<input type="checkbox"/>
	058	KR20060095576A	08-31-2006	QUALCOMM INC.		<input type="checkbox"/>
	059	RU2141168C1	11-10-1999	MOTOROLA LTD.		<input checked="" type="checkbox"/>
	060	RU2149509	05-20-2000	QUALCOMM INCORPORATED.		<input checked="" type="checkbox"/>
	061	RU2335852C2	10-10-2008	QUALCOMM INC.		<input checked="" type="checkbox"/>
	062	WO02065664A2	08-22-2002	QUALCOMM INC [US]		<input type="checkbox"/>
	063	WO02082689A2	10-17-2002	MOTOROLA INC [US]		<input type="checkbox"/>
	064	WO02099992A1	12-12-2002	QUALCOMM INC [US]		<input type="checkbox"/>

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	065	WO03028153A1	04-03-2003	ARRAYCOMM INC [US]		<input type="checkbox"/>
	066	WO03047140A1	06-05-2003	FUJITSU LIMITED.		<input type="checkbox"/>
	067	WO04002047	12-31-2003	QUALCOMM INC [US]		<input type="checkbox"/>
	068	WO199809395	03-05-1998	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY,US.		<input type="checkbox"/>
	069	WO2004002011	12-31-2003	QUALCOMM INCORPORATED.		<input type="checkbox"/>
	070	WO9824192A1	06-04-1998	TRW INC [US]		<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

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	071	DIGGAVI, S. et al., "intercarrier interference in MIMO OFDM," IEEE International Conference on Communications, 2002, Vol. 1, 485-489.				<input type="checkbox"/>
	072	ISERTE et al., "Joint beamforming strategies in OFDM-MIMO systems," 2002, sections 2 and 3, Department of Signal Theory and Communications.				<input type="checkbox"/>
	073	LEBRUN G., et al., "MIMO transmission over a time varying TDD channel using SVD," Electronics Letters, 2001, Vol. 37, 1363-1364.				<input type="checkbox"/>
	074	Li et al., "Simplified Channel Estimation for OFDM Systems with Multiple Transmit Antennas," IEEE Transactions on Wireless Communications, January 2002, Vol. 1, No. 1,				<input type="checkbox"/>

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		67-75.		
	075	SAMPATH H., et al., "Joint transmit and receive optimization for high data rate wireless communication using multiple antennas, XP010373976," 2002, 215-219.	<input type="checkbox"/>	
	076	WONG K. K., et al., "Optimizing time and space MIMO antenna system for frequency selective fading channels," 2001, Sections II and III and V, 1396.	<input type="checkbox"/>	
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